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IN THE CLAIMS

Please amend the claims as indicated below:

1. **(Currently Amended)** A system for providing parallel processing of data to a plurality of digital signal processors (DSPs), comprising:

means for transmitting communication data to a load management system from a CPU; at least one CPU, wherein the load management system includes:
a plurality of direct memory access (DMA) devices, each DMA device having one or more internal registers, one or more FIFOs, and a state machine associated with the one or more FIFOs;
a memory interface for interfacing the plurality of DMA devices with an external memory device;
a plurality of status and control registers coupled to the plurality of DMA devices;
at least one CPU interface for interfacing the at least one CPU with the plurality of status and control registers; and
a plurality of DSP interfaces for interfacing the plurality of DSPs with the plurality of DMA devices;

means for selecting a digital signal processor (DSP) from a plurality two or more DSPs from the plurality of DSPs for processing the communication data;
means for processing the communication data using the selected DSP two or more DSPs;
and
means for transmitting the processed communication data back to the CPU the at least one CPU and to a communication device.
2. **(Currently Amended)** A system The system of claim 1, wherein the communication data is transmitted from a VoIP medium system.
3. **(Currently Amended)** A system The system of claim 1, wherein the communication data is transmitted from a FoP medium system.
4. **(Currently Amended)** A system The system of claim 1, wherein the communication

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data is transmitted from an IP to sonet-~~medium system~~.

5. (Currently Amended) A system The system of claim 1, wherein the communication data is transmitted from an encoder/decoder.

6. (Currently Amended) A system The system of claim 1, wherein the communication data is transmitted from a broadband communication-~~medium system~~.

7. (Currently Amended) A system The system of claim 1, wherein the communication data is transmitted from an image processing-~~medium system~~.

8. (Currently Amended) A system The system of claim 1, wherein the communication data is transmitted from a data modem.

9. (Canceled).

10. (Currently Amended) A system of claim 9 The system of claim 1, wherein the DSP interface each of the plurality of DSP interfaces includes a program/data memory and a ping pong memory.

11. (Currently Amended) A system of claim 9 The system of claim 1 further comprising an external memory, wherein the external memory is coupled to the plurality of DSPs through a plurality of dedicated memory threads.

12. (Currently Amended) A system of claim 9 The system of claim 1, wherein the CPU the at least one CPU interface includes a routing at least one routing MUX, wherein the routing the at least one routing MUX is coupled to the external memory device.

13. (Currently Amended) A system The system of claim 12, wherein the external memory device comprises a memory access controller array.

14. (Currently Amended) A system The system of claim 12, wherein the external memory device comprises a memory management system.

15-32. (Canceled).

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33. (New) A method for providing parallel processing of data to a plurality of digital signal processors (DSPs), comprising the steps of:

transmitting communication data to a load management system from at least one CPU,

wherein the load management system includes:

a plurality of direct memory access (DMA) devices, each DMA device having one or more internal registers, one or more FIFOs, and a state machine associated with the one or more FIFOs;

a memory interface for interfacing the plurality of DMA devices with an external memory device;

a plurality of status and control registers coupled to the plurality of DMA devices; at least one CPU interface for interfacing the at least one CPU with the plurality of status and control registers; and

a plurality of DSP interfaces for interfacing the plurality of DSPs with the plurality of DMA devices;

selecting two or more DSPs from the plurality of DSPs for processing the communication data;

processing the communication data using the selected two or more DSPs; and

transmitting the processed communication data back to the at least one CPU and to a communication device.